Muhammad Aswan Syahputra

DATA ANALYST · SENSOMETRICS SPECIALIST

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I would like to recognize myself as a Food Data Scientist. I have an expertise in Sensory Science with a Food Technology background, a passion in data analysis and visualisation, an eagerness in R statistical programming, and a hobby in developing analytical web application.

Work

Jabar Digital ServiceBandung, Indonesia

DATA ANALYST

Nov 2019 – Present

- · Gather insight from sectoral data to support decision and policy making
- · Optimise the budget and resource allocation within government
- Improve the quality of digital products that tailored for government and public use

Sensolution.ID - Food Sensory and Sensometrics Consulting

Bandung, Indonesia

Nov 2018 - Present

SENSOMETRICS SPECIALIST

- Develop a software for sensory data collection and analyses.
- Deliver training to clients for advance sensory methods and analyses.
- Assist clients to arrange, design, and perform sensory research.

R Academy of Telkom University

Bandung, Indonesia

May 2019 - Present

INSTRUCTOR

- Design syllabus for R training courses.
- Deliver training for R courses, including: introduction to R for data science, data visualisation in R, machine learning in R, fundamental tidy data science in R.

Sensory and Applied Food Research Group at Universitas Brawijaya

Malang, Indonesia Apr 2018 – Jul 2018

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- Developed prototype of a new software for sensory data analyses.
- Delivered lectures to students in sensory evaluation and methods course.
- · Conducted research to compare users' experience between two different softwares when performing sensory data analyses.

Research Consultancy and Data Analysis Services

Indonesia - The Netherlands

INDEPENDENT FREELANCE

2014 – Present

- Assisted clients to properly choose and design an appropriate food research.
- Assisted clients to learn and analyse data collected from food research.
- Developed an analytical software to help clients analysing data.

Indonesian Coffee and Cocoa Research Institute (ICCRI)

Jember, Indonesia

INTERN

Dec 2013 - Feb 2014

- Assisted and prepared the procedure to evaluate sensory characteristic of specialty coffee.
- Assisted sensory evaluation of chocolate products

Faculty of Agricultural Technology, Universitas Brawijaya

Malang, Indonesia

ASSISTANT FOR LABORATORY PRACTICUM

2012 - 2015

- Prepared syllabus for laboratory practicum.
- Assisted, supervised, and evaluated students performance during laboratory works.
- · Laboratory of Sensory Analysis, Laboratory of Post-harvest Processing Technology, and Laboratory of Chemistry.

Education

Wageningen University and Research

Wageningen, The Netherlands

MASTER IN FOOD TECHNOLOGY, SENSORY SCIENCE SPECIALISATION

2016-2018

- Thesis: "Observation of Chewing Activity using Photoplethysmography (PPG) method". Supervisors: Monica Mars and Chirstos Diou.
- Internship: "Development of SenseHub: an integrated web application for sensory analyses". Supervisors: Kiki Fibrianto and Betina Piqueras-Fiszman.
- Excelled in: Advance Sensory Science and Sensometrics (MCB-32806), Integrated Sensory Science (MCB-33306), Instrumental Sensory Science (HNE-30606), Product and Process Design (FQD-60312), and Advance Statistics (MAT-20306).
- · Granted with Indonesian Education Scholarship from Indonesia Endowment Fund of Education (LPDP).
- CGPA of 7.53/10.00.

Universitas Brawijaya Malang, Indonesia

BACHELOR IN AGRICULTURAL PRODUCT TECHNOLOGY, FOOD SCIENCE AND TECHNOLOGY PROGRAM

2011-2015

- Thesis: "Exploratory study: the influence of iced-coffee drinking methods to consumers' multisensory perception utilizing Rate-all-that-Apply (RATA) method". Supervisors: Kiki Fibrianto and Indria Purwantiningrum.
- · Internship: "Sensory evaluation of specialty coffee using cups tasting procedure". Supervisors: Kiki Fibrianto and Yusianto.
- Excelled in: Food Product Development and Sensory Evaluation, Food Processing Technology, and Statistic and Computation.
- Granted with PPA Scholarship from Ministry of Research, Technology and Higher Education of Indonesia.
- CGPA of 3.80/4.00.

External Activity

Komunitas R Indonesia

Indonesia

INITIATOR

2016 – Present

• Komunitas R Indonesia is a non-profit community for Indonesian to learn and share knowledge about R statistical programming language. I initiated this community back in 2016 and now it has more than 1000 members came from cities in Indonesia. Aside from managerial activity, in several occasions I also gave presentation and training to the members during community meetup. Additionally, I share my knowledge about R programming in Youtube video in hope that it can be beneficial to broader audience.

Association of Indonesian Education Scholarship Awardee in Wageningen University and Research

Wageningen, The Netherlands

COORDINATOR

Sep 2016 - Sep 2017

The massive number of Indonesian scholarship awardee in Wageningen University and Research introduces challenge in communication, sharing of information, and management between students and Indonesian government. I took an initiative and an opportunity to help both students and Indonesian government to face these challenges. Furthermore, I also assisted the students who had issues or problems in studying, financial, administration, and daily life.

Food Sensory Research Group Universitas Brawijaya

Malang, Indonesia

MEMBER AND DATA ANALYST

2015 – Present

• Food Sensory Research Group was the first student group in Universitas Brawijaya that focused in sensory science and research. In this group we constantly have discussion about new issues in sensory science, advance sensory methods, how to handle complexity in data, and practical applications of sensory science in Food Technology domain.

Himpunan Mahasiswa Teknologi Hasil Pertanian (HIMALOGISTA) Universitas Brawijaya

Malang, Indonesia

TUTOR FOR STUDENTS

2012 - 2014

Ivolunteered to help and assist students in studying several courses taught in Food Science and Technology department, including: Fundamentals of Food Process Engineering, Food Process Engineering, Research Methodology and Experimental Design, and Statistics and Computation.

Research

Thermostats: an Open Source Shiny App for Your Open Data Repository

Padang, Indonesia

JOIV: INTERNATIONAL JOURNAL ON INFORMATICS VISUALIZATION

2019

- · Researchers: Dasapta Erwin Irawan, Muhammad Aswan Syahputra, Prana Ugi, Deny Juanda Puradimaja
- In this research we collected water quality from 416 geothermal sites across Indonesia and built an analytical, data-driven, and user-focused online application for analyzing geothermal water quality

Consumer Preference and Satisfaction Analysis on Croissant in Malang Area

Selangor, Malaysia

KUALA LUMPUR INTERNATIONAL AGRICULTURE, FORESTRY & PLANTATION CONFERENCE (KLIAFP)

2018

- Researchers: Jaya Mahar Maligan, Yuke Pamelasari, Muhammad Aswan Syahputra.
- In this research we investigated various external product properties that may give contribution to consumer preference and satisfaction. By using External Preference Mapping method, we were able to discover the perceptual mapping of various Croissant brands and the segmentation of consumers group.

SenseHub: an integrated web application for sensory analyses

Malang, Indonesia

International Coference on Green Agroindustry and Bioeconomic (ICGAB)

2018

- Researchers: Muhammad Aswan Syahputra, Kiki Fibrianto, Eka Shinta Wulandari.
- In this research we compared the users' experience when using generic statistical software versus SenseHub for performing sensory data analyses. SenseHub is a web application that was developed by the author to make sensory data analysis easier while embedded with plenty of state-of-the-art sensometrics procedures.

Observation of Chewing Activity using Photoplethysmography (PPG) Method

Wageningen, The Netherlands

MASTER THESIS AT WAGENINGEN UNIVERSITY AND RESEARCH

2018

- Researchers: Muhammad Aswan Syahputra, Monica Mars, Christos Diou.
- In this research we developed algorithms to monitor chewing activity during eating solid and semi-solid foods using a new sensor, Photoplethsmography (PPG). We measured the performance of the proposed algorithms and made comparison with the existing procedures for monitoring chewing, i.e. video recording analysis and Electro Myography (EMG) method.

Effects of Delivery Methods to Multisensory Perceptions: a Review

Malang, Indonesia

JURNAL PANGAN DAN AGROINDUSTRI

• Researchers: Muhammad Aswan Syahputra, Kiki Fibrianto, Indria Purwantiningrum.

 In this concise review article we were discussing the possible effect of delivery methods of food and drink to multisensory perceptions during eating.

Exploratory Study: the Influence of Instant Iced-Coffee Drinking Methods to Consumers' Multisensory Perceptions Utilizing Rate-all-that-Apply (RATA) Method

Malana, Indonesia

BACHELOR THESIS AT UNIVERSITAS BRAWIJAYA

2015

- · Researchers: Muhammad Aswan Syahputra, Kiki Fibrianto, Indria Purwantiningrum.
- · In this research we asked participants to consume iced-coffee in three ways: drinking using straw; immediate drinking from the glass; and tasting using spoon. We discovered that the difference in drinking method may alter consumers' multisensory perception during drinking.

Delivered Presentation and Training

Extending RStudio with git and GitHub

Bandung, Indonesia

KOMUNITAS R INDONESIA MEETUP AT SCHOOL OF BUSINESS AND MANAGEMENT, BANDUNG INSTITUTE OF TECHNOLOGY

31 August 2019

 Introduction to version control system, benefit of using git and GitHub for data science project, how to integrate RStudio with git and GitHub, workflow of using git and GitHub from RStudio

Data rectangling in R: a journey from JSON to CSV

Yogyakarta, Indonesia

KOMUNITAS R INDONESIA MEETUP AT SADASA ACADEMY

16 August 2019

· Data structure in R, subsetting elements of data object, functional iteration in R, importing JSON to R, transforming JSON structure into tabular data object

Fundamental tidy data science in R

Bandung, Indonesia

PUBLIC WORKSHOP AT R ACADEMY TELKOM UNIVERSITY

26-27 July 2019

• Introduction to Tidyverse for tackling data science problems, machine learning principle and workflow, case study supervised learning: predicting numbers and classes, case study unsupervised learning: topic modeling for texts, building a web application for interactive data visualization, deploying machine learning models into a web application

Translating consumer voice for market insight: an introduction to sensory science

Bandung, Indonesia

Internal workshop at School of Business and Management, Bandung Institute of Technology

5 July 2019

• Sensory science and its domain, application of sensory science, simulation of sensory research, demonstration of sensory data analysis

Bootcamp R for data science

Bandung, Indonesia

PUBLIC WORKSHOP AT R ACADEMY TELKOM UNIVERSITY

20-24 May 2019

· R essentials, working with version control system, data science workflow using tidyverse in R, machine learning and statistics, and case study of common machine learning problems

Data carpentry with tidyverse

Jakarta, Indonesia

KOMUNITAS R INDONESIA MEETUP AT ALGORITMA EDUCATION CENTER

11 May 2019

• Definition of data carpentry for handling data, common functions for data transformation, scrapping and cleaning data from webpage Bandung, Indonesia

Mastering data visualisation

13 April 2019

· Introduction to Grammar of Graphics, building a graph layer by layer, creating various types of data visualisation and customisation, manipulating graph looks and feels

R introduction for data science

Banduna. Indonesia

PUBLIC WORKSHOP AT R ACADEMY TELKOM UNIVERSITY

PUBLIC WORKSHOP AT R ACADEMY TELKOM UNIVERSITY

6 April 2019

· R fundamentals, importing data from various sources, performing data manipulation, creating data visualisation, and building models and

Let's build your first RStudio snippets and addins

Jakarta, Indonesia

KOMUNITAS R INDONESIA MEETUP AT PERBANAS INSTITUTE

23 March 2019

· Make use of RStudio snippets to write common codes, introduction to addins, writing custom code snippets, and creating an R package containing addins

Introduction to R (+) for data science

Bandung, Indonesia

KOMUNITAS R INDONESIA MEETUP AT TELKOM UNIVERSITY

22 February 2019

· Introduction to R, empowering R with RStudio+git, glimpse of tidyverse packages collection, chaining multiple operations in R, and practical activity on analysing Indonesia presidential election data

R (+) for data science

Bandung, Indonesia

DATASCIENTALK HIMATIKA BANDUNG INSTITUTE OF TECHNOLOGY

26 January 2019

R as statistical programming language, RStudio as IDE, git+GitHub as version control system, and tidyverse for data science activity R+RStudio tips and tricks:hidden gems to improve workflow

Jakarta, Indonesia

KOMUNITAS R INDONESIA MEETUP AT MICROSOFT INDONESIA

19 January 2019

· Trivia in R statistical programming language, guidelines for coding style, advices on how to setup R project, helpful RStudio shortcuts and tricks to improve workflow

INTERNAL WORKSHOP AT DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY, BOGOR AGRICULTURAL UNIVERSITY

19-20 December 2019

• Conventional and advance sensory methods, statistical approach for analysing sensory data, and practical on how to analyse sensory data from various sensory methods using R and SenseHub

R in food sensory research

Bandung, Indonesia

KOMUNITAS R INDONESIA MEETUP AT BANDUNG INSTITUTE OF TECHNOLOGY

15 November 218

• Application of R for linking food properties and consumer preference, food production optimisation, and detection of chewing activity

SenseHub: an integrated web application for sensory analyses

Malang, Indonesia

INTERNATIONAL COFERENCE ON GREEN AGROINDUSTRY AND BIOECONOMIC (ICGAB)

19 September 2018

 Research methods in sensory science, discussion of available software for sensory analyses, proposal of new sensory software named Sense-Hub and its comparison with existing statistical software

Developed Software

R package Syahputra, MA. (2019). jabr: an R interface for accessing Open Data Jawa Barat.

R package Syahputra, MA. (2019). sensehubr: a tidy tools for sensory data analysis.

R package Syahputra, MA. (2019). bandung juara: an R interface for accessing Open Data Kota Bandung.

R package Syahputra, MA. (2019). jakartaraya: an R interface for accessing Open Data Kota Jakarta.

R package Syahputra, MA. (2019). nusandata: a curated datasets about Indonesia.

Web apps Syahputra, MA. (2019). SenseQuest: an web application for sensory data collection.

Web apps Syahputra, MA. (2018). SenseHub: an integrated web application for sensory analysis.

Web apps Irawan, DE., Syahputra, MA. (2018). Aquastats: a web application for groundwater data analyses.

Web apps Irawan, DE., Syahputra, MA. (2018). Thermostats: a web application for hot water data analyses.

Web apps Syahputra, MA. (2018). MCDM: a shiny application for performing Multiple Criteria Decision Making (MCDM).